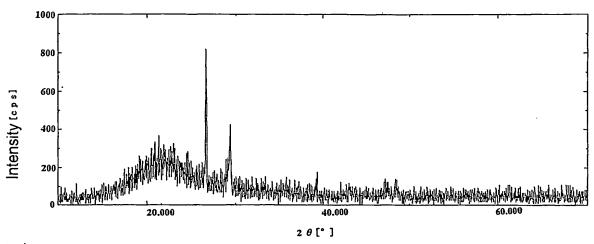
FIG. 1

(a)



(b)

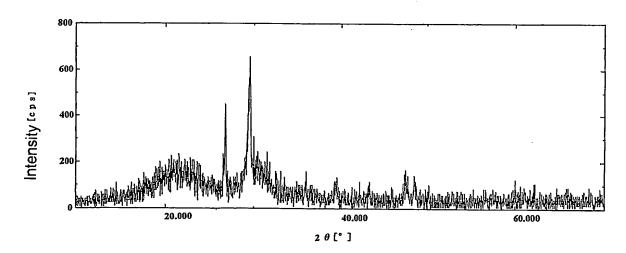


FIG. 2 EDX spectrum of oxinitride material

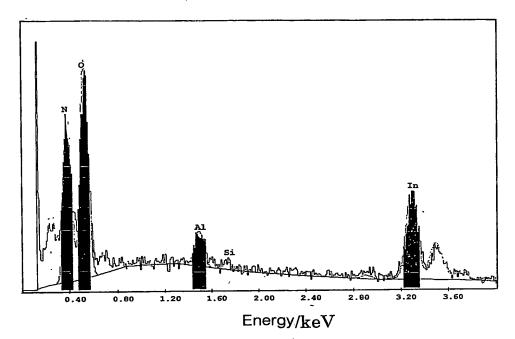


FIG. 3

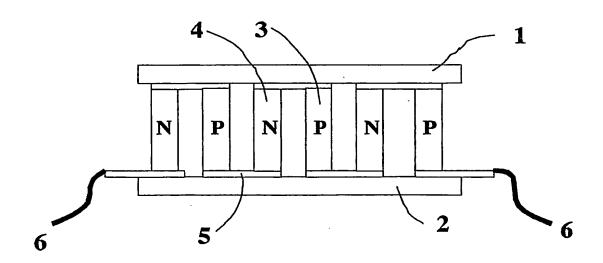
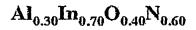


FIG. 4



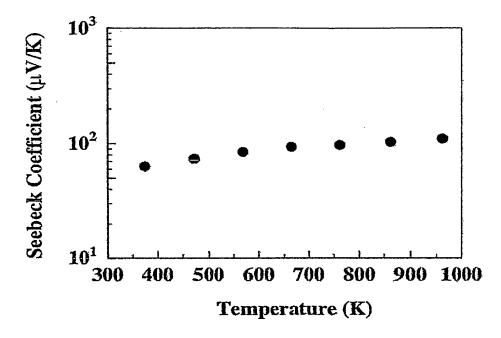


FIG. 5

$\mathbf{Al_{0.30}In_{0.70}O_{0.40}N_{0.60}}$

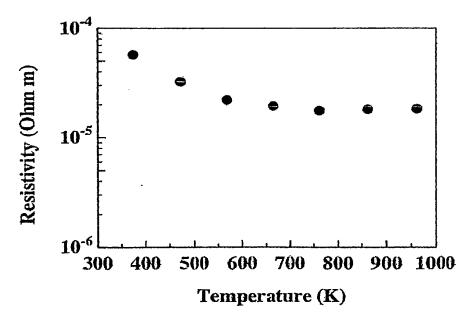


FIG. 6 $Al_{0.23}In_{0.70}Ga_{0.07}O_{0.40}N_{0.60}$

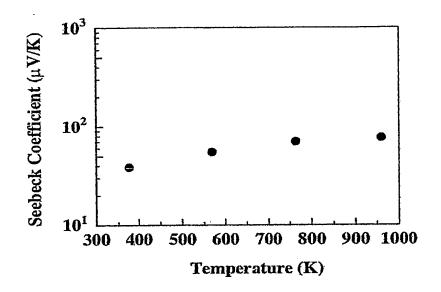


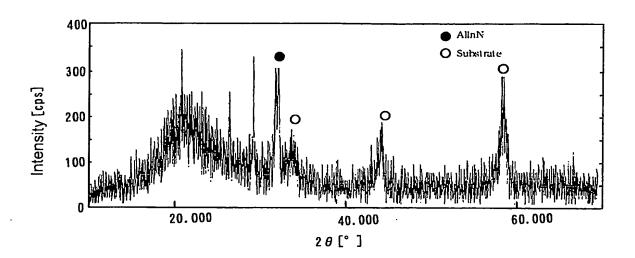
FIG. 7

Al_{0.23}In_{0.70}Ga_{0.07}O_{0.40}N_{0.60}

(iii iii)
10⁻³
10⁻⁵
300 400 500 600 700 800 900 1000

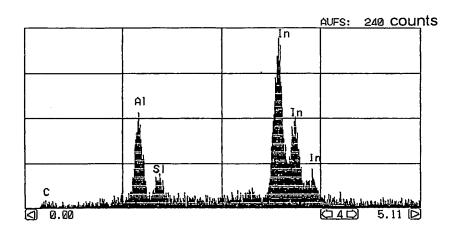
Temperature (K)

FIG. 8

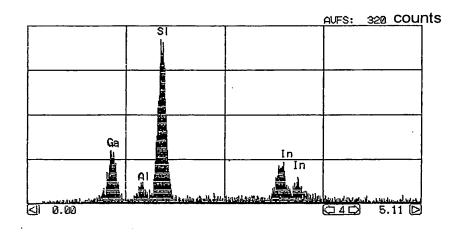


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FIG. 9



(a) Composition analysis pattern of AllnN by EDX



(b) Composition analysis pattern of GaAlInN by EDX

FIG. 10.

Al $_{0.5}$ In $_{0.5}$ N

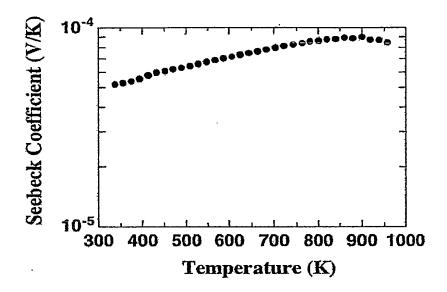


FIG. 11

Al $_{0.5}$ In $_{0.5}$ N

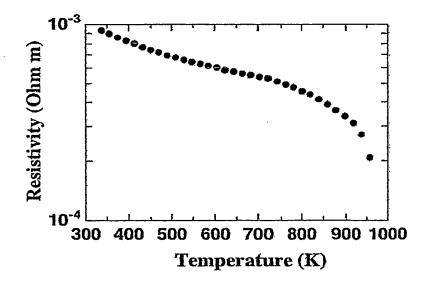


FIG. 12

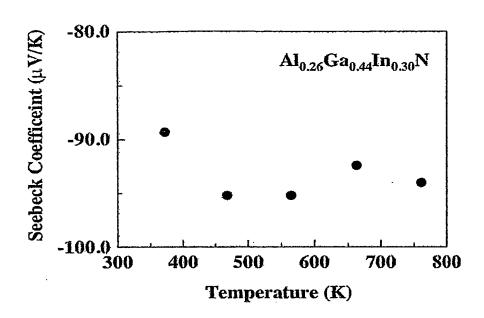


FIG. 13

